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08,868762 ZA

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Other, description:

5,315,740

Doc Code: Artifact

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*Has received an application for a patent
for a new and useful invention. The title
and description of the invention are en-
closed. The requirements of law have
been complied with, and it has been de-
termined that a patent on the invention
shall be granted under the law.*

Therefore, this

United States Patent

*Grants to the person or persons having
title to this patent the right to exclude
others from making, using or selling the
invention throughout the United States
of America for the term of seventeen
years from the date of this patent, sub-
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as provided by law.*

Bruce Lehman

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Attest

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US005315740A

United States Patent [19]

Provost

[11] Patent Number: **5,315,740**[45] Date of Patent: **May 31, 1994**[54] **HOOK FOR HOOK AND LOOP FASTENERS**[75] Inventor: **George A. Provost, Litchfield, N.H.**[73] Assignee: **Velcro Industries, B.V., Amsterdam, Netherlands**[21] Appl. No.: **932,633**[22] Filed: **Aug. 20, 1992**[51] Int. Cl.⁵ **A44B 18/00**[52] U.S. Cl. **24/452; 24/442; 24/449**[58] Field of Search **24/452, 451, 450, 449, 24/442, 448**[56] **References Cited****U.S. PATENT DOCUMENTS**

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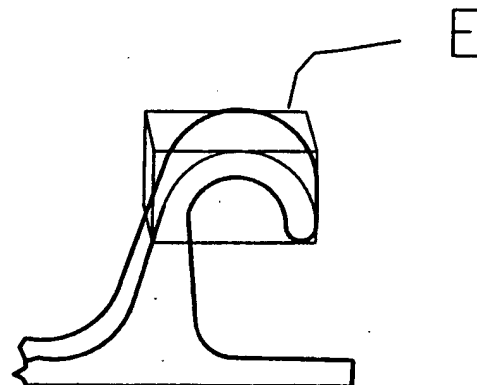
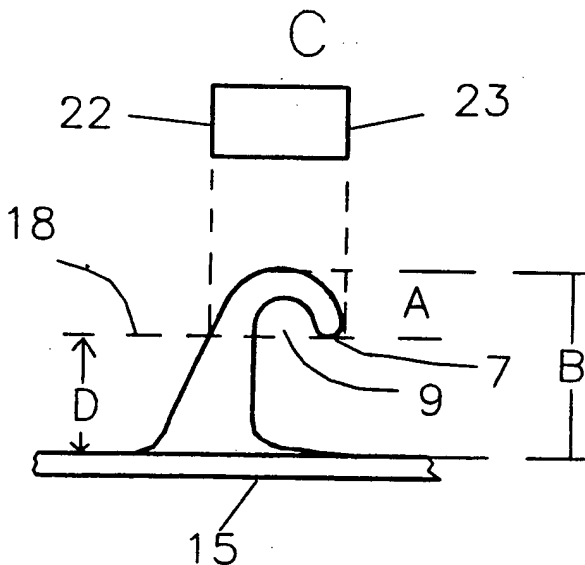
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Attorney, Agent, or Firm—Fish & Richardson

[57] **ABSTRACT**

A plastic molded hook for use with a hook and loop fastening system especially adapted for use with low profile loops. The hook design includes a base, a stem and a crook whereby the volume of the portion of the hook penetrating into a pile of loops is defined as the displacement volume. Hooks especially adapted for use with low profile loops have a displacement volume of less than 6×10^{-6} cubic inches.

15 Claims, 3 Drawing Sheets**BEST AVAILABLE COPY**